BY THE ORDER OF THE COMMANDER
AIR MOBILITY COMMAND

AIR MOBILITY COMMAND INSTRUCTION
32-1043

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Civil Engineering

OPERATION AND MAINTENANCE OF AIRCRAFT ARRESTING SYSTEMS

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction establishes uniform standards, procedures and terminology for the operation and maintenance of Aircraft Arresting Systems (AAS) within Air Mobility Command (AMC). It is applicable to all AMC elements having maintenance or operational responsibility for AAS on AMC bases including active duty military, Department of Defense or contracted civilian employees. Any and all requirements/responsibilities set forth in this instruction are in addition to or highlight the operational and maintenance guidance set forth in applicable AAS Technical Orders (TO), and management criteria/responsibilities set forth in Air Force Instruction (AFI) 32-1043 Managing Aircraft Arresting Systems.

NOTE: Due to the relocation of the San Antonio Air Logistics Center from Kelly AFB, Texas to Robins AFB, Georgia, the address for submittal of Aircraft Arrestment Reports in accordance with AFI 32-1043 has changed. The new address is as follows:

WR-ALC/LESGF

ATTN: Mr. Mark Hardin

295 Byron St.

Robbins AFB, GA 31098-1611

****WARNING**** **UNDER NO CIRCUMSTANCES WILL THE AAS CABLE BE LEFT ON THE ACTIVE RUNWAY WITHOUT BEING CONNECTED TO THE PURCHASE TAPE CONNECTOR ON BOTH SIDES OF THE RUNWAY AND CERTIFIED IN THE BATTERY POSITION! THIS IS A SERIOUS SAFETY HAZARD, WHICH COULD RESULT IN EXTENSIVE AIRCRAFT DAMAGE, PERSONAL INJURY OR DEATH.**

1. Common AAS Terminology: The following terms are commonly associated with AAS operations, and should be understood and used by all parties engaged in AAS activities to include but not limited to: Civil Engineers, Airfield Operations, and Air Traffic Control personnel. This list is not intended to be all-inclusive, but should provide a basis for written and radio communications, developing instructions, procedures, and training plans related to AAS operations to ensure safe effective AAS support on AMC bases.

1.1. Install- Indicates a request to connect the AAS cable across the active runway, secure it to the purchase tape connector on both sides of the runway, and place in the battery position.

1.2. Battery Position- Indicates that the AAS cable is connected and the system is certified for all engagement operations.

1.3. Barrier Certification- Indicates the AAS has been inspected by a task qualified 3E052/Power Production technician, and is certified for all engagement operations.

1.4. Removal- Indicates a request to disconnect the AAS cable from the purchase tape connector, and remove it off of, and a safe distance to the side of, the active runway.

1.5. Out of Service- Indicates the AAS is not available for engagement operations.

1.6. In Flight Emergency (IFE)- Indicates an inbound/outbound aircraft emergency with a high probability of AAS use.

1.7. AAS Location Identification- A two-part description identifying the location of an AAS by the runway designation number, and as either the approach or departure end. For example: The runway 36 approach end AAS. **Note**: Designation of the active runway will change with prevailing winds and other factors. AAS personnel should confirm AAS location identification with flying operations personnel to ensure proper AAS configuration to meet mission requirements.

2. General Responsibilities: It is the responsibility of all personnel engaged in AAS activities at all AMC bases to ensure full implementation and effective use of this instruction. Specific responsibilities are covered in paragraphs **2.1.** through **2.4.**

2.1. The Wing Commander:

2.1.1. Ensures local procedures related to AAS operations are exercised as part of the local wing exercise scenarios, to evaluate adequacy of training programs and unit readiness to respond to AAS emergencies. ***NOTE:*** **Exercise scenarios should involve all personnel with AAS responsibilities (i.e. Power Production/Barrier Maintenance, Fire Protection Element, Base Operations, and Air Traffic Control) to adequately demonstrate response, communication, and operations capability before, during and after an aircraft IFE involving the AAS.**

2.2. Base Civil Engineer:

2.2.1. Ensures local compliance with AAS management criteria/responsibilities set forth in AFI-32-1043 (Managing Aircraft Arresting Systems) and this instruction.

2.2.2. Ensures/approves procedures, instructions, and training plans related to AAS operations are developed in writing to delineate responsibilities between Civil Engineer work centers (i.e. Power Production and Fire Protection) during and after normal duty hours, and to provide standardized training for non-Power Production personnel engaged in AAS operations.

2.2.3. Designates local Power Production technician(s) or civilian equivalent in writing to annually certify assigned personnel to perform daily inspections on AAS via AF Form 483 **Certificate of Competency.**

2.2.4. Reviews at least annually all Host Tenant Support Agreements/Memorandums of Agreement relating to AAS support requirements to ensure validity, ensure required support capability, and recommend modifications as required.

2.3. Power Production/Barrier Maintenance Section:

2.3.1. Performs inspection, maintenance, certification and repair of all assigned AAS in compliance with the frequency and specifications of governing Technical Orders for the AAS assigned to the base.

2.3.2. Maintains an accurate historical log/record in the work center of all maintenance and inspection activities for each AAS assigned. Locally developed automated inspection forms/logs are authorized.

2.3.3. The Power Production NCOIC or civilian equivalent ensures applicable AAS technical orders and work cards, Air Force Instructions, MAJCOM and local instructions, and AFOSH Standards are maintained in the work center and are readily available for all personnel engaged in AAS activities, and that all personnel engaged in AAS activities are trained in their use and content.

2.3.4. The Power Production NCOIC or civilian equivalent ensures compliance with all applicable Technical Orders, Air Force and MAJCOM instructions, and approved local procedures or instructions by all personnel engaged in AAS operations or maintenance activities at the assigned base.

2.3.5. The Power Production NCOIC or civilian equivalent ensures that all Power Production personnel engaged in AAS activities are task certified to the appropriate task level in accordance with the Power Production Career Field Education and Training Plan (CFETP) for the AAS assigned to the base.

2.3.6. The Power Production NCOIC or civilian equivalent ensures that all personnel engaged in daily AAS inspection activities are certified on AF Form 483 **Certificate of Competency** on an annual basis. The AF Form 483 should be maintained in the individual's AF Form 623 (Record of Training) for safekeeping.

2.3.7. The Power Production NCOIC or civilian equivalent ensures that a Report of Aircraft Arrestment is sent to HQ AMC/CEOI AAS Manager immediately following AAS contact. ***NOTE:*** <u>This is in addition to the report requirement in AFI 32-1043. Electronic submittals are authorized.</u>

2.3.8. The Power Production NCOIC or civilian equivalent develops and implements local procedures and instructions in writing to clearly delineate AAS operations responsibilities during and after normal duty hours between Civil Engineer work centers (i.e. Power Production and Fire Protection). A signed/approved copy is maintained in the Power Production Section records and must be forwarded to HQ AMC/CEOI AAS Manager. Electronic submittals are authorized. ***NOTE:*** <u>Only task qualified 3E052 technicians can certify an AAS back in service after an arrestment.</u>

2.3.9. The Power Production NCOIC or civilian equivalent develops and implements a standardized Plan of Instruction and Lesson Plan to provide recurring training on assigned AAS to non-power production personnel.

2.3.10. The Power Production NCOIC or civilian equivalent schedules and provides training for non-power production personnel on a quarterly basis as a minimum, or as required to maintain sufficient numbers of trained personnel to meet local mission requirements. The Power Production Section maintains an accurate record of each training class for all non-Power Production personnel trained in AAS operations at the assigned base to include: the training date, name and rank/ grade of attendees, and the instructors name and rank/grade. The Power Production Section will provide a copy to the trainee's duty section for their records.

2.3.11. The Power Production NCOIC or civilian equivalent maintains a "Special Level" type Supply Account to ensure certain critical replacement items are locally available to prevent extended out of service time of assigned AAS due to procurement time. These items may include but are not limited to: purchase-tapes, purchase-tape connectors, purchase-tape connector covers, pendants, special valves and fittings, brake sets or brake kits, and replacement bundles for the Textile type AAS.

2.4. Fire Protection Element:

2.4.1. The Fire Protection Element personnel will assist Power Production/Barrier Maintenance Section during and after normal duty hours as specified in locally approved instructions/ procedures.

NOTE: Only task qualified 3E052 technicians can certify an AAS back in service after an arrestment.

2.4.2. The Fire Protection Element training supervisor will request training through appropriate Civil Engineer channels on a quarterly basis as a minimum, or as required to maintain sufficient numbers of trained personnel to meet local mission requirements.

2.4.3. The Fire Protection Element training supervisor will maintain an accurate record of each AAS operations training class to include: the training date, name and rank/grade of attendees, and the instructors name and rank/grade. ***NOTE:*** The Power Production Section will provide a record of training following each training session.

3. Maintenance actions and maintenance support:

3.1. Only CFETP task qualified 3E0X2/Power Production or civilian equivalent personnel are authorized to perform maintenance actions on AAS.

3.2. Maintenance actions must be accomplished as outlined in applicable AAS Technical Orders. Any deviation or waiver request must be coordinated through the HQ AMC/CEOI AAS Manager.

3.3. AAS technical assistance is available by contacting the HQ AMC/CEOI AAS Manager.

3.4. Repair action deemed beyond local capability can be supported by a Civil Engineer Maintenance Inspection and Repair Team (CEMIRT) as necessary. Contact the HQ AMC/CEOI AAS Manager for support coordination.

HQ AMC/CEOI AAS Manager, Contact Information:

HQ AMC/CEOI
ATTN: Aircraft Arresting Systems Manager
507 Symington Drive
Scott AFB, IL 62225-5022

L. DEAN FOX, Brig Gen, USAF
Director of Civil Engineering